

| FORM PTO-1449  |  | DOCKET NUMBER<br>FGT 223 |                            | APPLICATION NUMBER |              |                         |
|--|--|--------------------------|----------------------------|--------------------|--------------|-------------------------|
| INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |  | APPLICANT(S)             |                            |                    |              |                         |
|  |  | FILING DATE              |                            | GROUP ART UNIT     |              |                         |
| U.S. PATENT DOCUMENTS                                |  |                          |                            |                    |              |                         |
| EXAMINER<br>INITIAL                                  | DOCUMENT<br>NUMBER   | DATE                     | NAME                       | CLASS              | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| ES   | 4,779,528  | 10-25-88                 | Bruke                      |                    |              |                         |
|  | 4,926,823  | 5-22-90                  | Kishi et al                |                    |              |                         |
|  | 4,965,741  | 10-16-90                 | Cook et al                 |                    |              |                         |
|  | 5,236,332  | 8-17-93                  | Satou et al                |                    |              |                         |
|  | 5,280,770  | 1-25-94                  | Satou et al                |                    |              |                         |
|  | 5,422,811  | 6-6-95                   | Togai                      |                    |              |                         |
|  | 5,515,828  | 5-14-96                  | Cook et al                 |                    |              |                         |
|  | 5,548,514  | 8-20-96                  | Hasegawa et al             |                    |              |                         |
|  | 5,600,056  | 2-4-97                   | Hasegawa et al             |                    |              |                         |
| ✓  | 5,647,312  | 7-15-97                  | Salber et al               |                    |              |                         |
| ES   | 5,669,341  | 9-23-97                  | Ushirono et al             |                    |              |                         |
| FOREIGN PATENT DOCUMENTS                             |  |                          |                            |                    |              |                         |
|  | DOCUMENT<br>NUMBER   | DATE                     | COUNTRY                    | CLASS              | SUB<br>CLASS | TRANSLATION<br>YES NO   |
| ES   | S55-49549 ✓  | 4-10-80                  | JP                         |                    |              |                         |
| ES   | S55-29002 ✓  | 3-1-80                   | JP                         |                    |              |                         |
| ES   | 1 054 148 ✓  | 5-18-00                  | EP                         |                    |              |                         |
| OTHER DOCUMENTS                                      |  |                          |                            |                    |              |                         |
| ES   | RONALD J. PIERIK et al, "Design and Development of a Mechanical Variable Valve Actuation System", SAE Technical Paper No. 2001-01-1221, March 6-9, 2000, pp. 1-8 |                          |                            |                    |              |                         |
| ES   | MARTIN PISCHINGER et al, "Benefits of the Electromechanical Valve Train in Vehicle Operation", SAE Technical Paper No. 2000-01-1223, March 6-9, 2000, pp. 1-11   |                          |                            |                    |              |                         |
| ES   | M.J. VAN NIEUWSTADT et al, "Air Change Estimation in Camless Engines", SAE Technical Paper No. 2001-01-0581, March 5-8, 2001, pp. 1-8                            |                          |                            |                    |              |                         |
| EXAMINER<br>ES                                       |  |                          | DATE CONSIDERED<br>3/21/00 |                    |              |                         |

| FORM PTO-1449  |   | DOCKET NUMBER |                 | APPLICATION NUMBER |              |                         |  |
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| INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |   | APPLICANT(S)  |                 |                    |              |                         |  |
|  |   | FILING DATE   |                 | GROUP ART UNIT     |              |                         |  |
| U.S. PATENT DOCUMENTS                                |   |               |                 |                    |              |                         |  |
| EXAMINER<br>INITIAL                                  | DOCUMENT<br>NUMBER  | DATE          | NAME            | CLASS              | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |  |
| ES   | 5,678,402   | 10-21-97      | Kitagawa et al  |                    |              |                         |  |
|  | 5,743,221   | 4-28-98       | Schmitz         |                    |              |                         |  |
|  | 5,746,183   | 5-5-98        | Parke et al     |                    |              |                         |  |
|  | 5,765,514   | 6-16-98       | Sono et al      |                    |              |                         |  |
|  | 5,950,603   | 9-14-99       | Cook et al      |                    |              |                         |  |
|  | 6,000,376   | 12-14-99      | Hess et al      |                    |              |                         |  |
|  | 6,023,929   | 2-15-00       | Ma              |                    |              |                         |  |
|  | 6,039,026   | 5-21-00       | Shiraishi et al |                    |              |                         |  |
|  | 6,098,585   | 8-8-00        | Brehob et al    |                    |              |                         |  |
|  | 6,116,210   | 9-12-00       | Oder et al      |                    |              |                         |  |
| ES   | 6,138,636   | 10-31-00      | Kohno et al     |                    |              |                         |  |
| FOREIGN PATENT DOCUMENTS                             |   |               |                 |                    |              |                         |  |
|  | DOCUMENT<br>NUMBER  | DATE          | COUNTRY         | CLASS              | SUB<br>CLASS | TRANSLATION<br>YES NO   |  |
|  |   |               |                 |                    |              |                         |  |
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|  |   |               |                 |                    |              |                         |  |
| OTHER DOCUMENTS                                      |   |               |                 |                    |              |                         |  |
| ES   | LUCIEN KOOPMANS et al, "A four Stroke Camless Engine, Operated in Homogeneous Charge Compression Ignition Mode with Commercial Gasoline", SAE Technical Paper No. 2001-01-3610, September 24-27, 2001, pp. 1-14       |               |                 |                    |              |                         |  |
| ES   | WOLFGANG SALBER et al, "Synergies of Variable Valve Actuation and Direct Injection", SAE Technical Paper No. 2002-01-0706, March 4-7, 2002, pp. 1-9   |               |                 |                    |              |                         |  |
| ES   | "Operation of the Electronic Valve Actuation, Ford EVA Project Closed Loop Engine, System Control", Manual - Preliminary Version III, March 21, 2003, and in particular pp. 6, 72, 80-84, 89-95, 104-119, and 134-218 |               |                 |                    |              |                         |  |
| EXAMINER   |   |               | DATE CONSIDERED |                    |              |                         |  |
| ES   |   |               | 3/21/04         |                    |              |                         |  |

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| INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |                    | APPLICANT(S)  |                   |                    |              |                         |
|  |                    | FILING DATE   |                   | GROUP ART UNIT     |              |                         |
| U.S. PATENT DOCUMENTS                                |                    |               |                   |                    |              |                         |
| EXAMINER<br>INITIAL                                  | DOCUMENT<br>NUMBER | DATE          | NAME              | CLASS              | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| ES   | 6,219,611          | 4-17-01       | Russell           |                    |              |                         |
|  | 6,247,445          | 6-19-01       | Langer            |                    |              |                         |
|  | 6,276,316          | 8-21-01       | Arai et al        |                    |              |                         |
|  | 6,332,446          | 12-25-01      | Matsumoto et al   |                    |              |                         |
|  | 6,336,355          | 1-8-02        | Sasaki et al      |                    |              |                         |
|  | 6,341,584          | 1-29-02       | Itoyama et al     |                    |              |                         |
|  | 6,349,541          | 2-26-02       | Gruden et al      |                    |              |                         |
|  | 6,374,813          | 4-23-02       | Iida et al        |                    |              |                         |
| ✓  | 6,386,156          | 5-14-02       | Stockhausen et al |                    |              |                         |
|  | 6,390,063          | 5-21-02       | Obata et al       |                    |              |                         |
| ES   | 6,408,806          | 6-25-02       | Sugiyama et al    |                    |              |                         |
| FOREIGN PATENT DOCUMENTS                             |                    |               |                   |                    |              |                         |
|  | DOCUMENT<br>NUMBER | DATE          | COUNTRY           | CLASS              | SUB<br>CLASS | TRANSLATION<br>YES NO   |
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| OTHER DOCUMENTS                                      |                    |               |                   |                    |              |                         |
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| EXAMINER   |                    |               | DATE CONSIDERED   |                    |              |                         |
| ES   |                    |               | 3/21/06           |                    |              |                         |

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| FORM PTO-1449<br><br>INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |                    | DOCKET NUMBER |                            | APPLICATION NUMBER |              |                         |
|   |                    | APPLICANT(S)  |                            |                    |              |                         |
|   |                    | FILING DATE   |                            | GROUP ART UNIT     |              |                         |
| U.S. PATENT DOCUMENTS   |                    |               |                            |                    |              |                         |
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE          | NAME                       | CLASS              | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| ES  | 2002/0096139       | 7-25-02       | Zheng                      | /                  | /            |                         |
|   | 6,425,369          | 7-30-02       | Arai et al                 |                    |              |                         |
|   | 6,431,129          | 8-13-02       | Hammoud et al              |                    |              |                         |
|   | 6,431,130          | 8-13-02       | Leone et al                |                    |              |                         |
|   | 6,443,108          | 9-3-02        | Brehob et al               |                    |              |                         |
|   | 6,453,662          | 9-24-02       | Lewis et al                |                    |              |                         |
|   | 6,453,665          | 9-24-02       | Bower Jr. et al            |                    |              |                         |
|   | 6,457,465          | 10-1-02       | Lee                        |                    |              |                         |
| V   | 6,474,303          | 11-5-02       | Leone et al                |                    |              |                         |
|   | 6,311,667          | 11-6-02       | Satou et al                |                    |              |                         |
| ES  | 6,481,201          | 11-19-02      | Kako et al                 |                    |              |                         |
| FOREIGN PATENT DOCUMENTS  |                    |               |                            |                    |              |                         |
|   | DOCUMENT<br>NUMBER | DA6336355TE   | COUNTRY                    | CLASS              | SUB<br>CLASS | TRANSLATION<br>YES NO   |
|   |                    |               |                            |                    |              |                         |
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| OTHER DOCUMENTS   |                    |               |                            |                    |              |                         |
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| EXAMINER<br>ES  |                    |               | DATE CONSIDERED<br>3/21/06 |                    |              |                         |

| FORM PTO-1449<br><br>INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |                    | DOCKET NUMBER |                 | APPLICATION NUMBER |              |                            |  |
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|   |                    | APPLICANT(S)  |                 |                    |              |                            |  |
|   |                    | FILING DATE   |                 | GROUP ART UNIT     |              |                            |  |
| U.S. PATENT DOCUMENTS   |                    |               |                 |                    |              |                            |  |
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE          | NAME            | CLASS              | SUB<br>CLASS | FIL. DATE<br>IF APPROP.    |  |
| ES<br>↓<br>✓<br>ES  | 6,484,677          | 11-26-02      | Leone et al     |                    |              |                            |  |
|   | 6,470,853          | 11-29-02      | Leone et al     |                    |              |                            |  |
|   | 6,497,093          | 12-24-02      | Lewis et al     |                    |              |                            |  |
|   | 6,502,389          | 1-7-03        | Katayama et al  |                    |              |                            |  |
|   | 2003/0015026       | 1-23-03       | Chung           |                    |              |                            |  |
|   | 6,513,493          | 2-4-03        | Robichaux et al |                    |              |                            |  |
|   | 6,532,944          | 3-18-03       | Leone et al     |                    |              |                            |  |
|   | 6,550,434          | 4-22-03       | Leone et al     |                    |              |                            |  |
|   | 6,557,505          | 5-6-03        | Hori            |                    |              |                            |  |
|   | 6,568,177          | 5-27-03       | Surnilla        |                    |              |                            |  |
| ES  | 6,591,605          | 7-15-03       | Lewis           |                    |              |                            |  |
| FOREIGN PATENT DOCUMENTS  |                    |               |                 |                    |              |                            |  |
|   | DOCUMENT<br>NUMBER | DA6336355TE   | COUNTRY         | CLASS              | SUB<br>CLASS | TRANSLATION<br>YES      NO |  |
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| OTHER DOCUMENTS   |                    |               |                 |                    |              |                            |  |
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| EXAMINER  |                    |               | DATE CONSIDERED |                    |              |                            |  |
| ES  |                    |               | 3/14/06         |                    |              |                            |  |



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| FORM PTO-1449<br><br>INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |                    | DOCKET NUMBER<br>81100250                             |                            | APPLICATION NUMBER<br>10/805,615 |              |                         |
|   |                    | APPLICANT(S)<br>John O. Michelini and Donald J. Lewis |                            |                                  |              |                         |
|   |                    | FILING DATE<br>March 19, 2004                         |                            | GROUP ART UNIT                   |              |                         |
| U.S. PATENT DOCUMENTS   |                    |   |                            |                                  |              |                         |
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE  | NAME                       | CLASS                            | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| ES  | 6,192,857          | 2-27-01   | Shimada                    |                                  |              |                         |
| J   | 6,202,608          | 3-20-01   | Yamaki et al               |                                  |              |                         |
| J   | 6,374,783          | 4-23-02   | Toriumi                    |                                  |              |                         |
| J   | 6,389,806          | 5-21-02   | Glugla et al               |                                  |              |                         |
| ✓   | 6,415,601          | 7-9-02  | Glugla et al               |                                  |              |                         |
| ES  | 6,553,961          | 4-29-03   | Hammoud et al              |                                  |              |                         |
|   |                    |   |                            |                                  |              |                         |
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| FOREIGN PATENT DOCUMENTS  |                    |   |                            |                                  |              |                         |
|   | DOCUMENT<br>NUMBER | DATE  | COUNTRY                    | CLASS                            | SUB<br>CLASS | TRANSLATION<br>YES NO   |
|   |                    |   |                            |                                  |              |                         |
|   |                    |   |                            |                                  |              |                         |
|   |                    |   |                            |                                  |              |                         |
| OTHER DOCUMENTS   |                    |   |                            |                                  |              |                         |
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| EXAMINER<br>ES  |                    |   | DATE CONSIDERED<br>3/21/06 |                                  |              |                         |

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| INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION | DOCKET NUMBER<br>81100250        | APPLICATION NUMBER<br>10/805,615 |
|  | APPLICANT(S)<br>Michelini et al. |                                  |
|  | FILING DATE<br>March 19, 2004    | GROUP ART UNIT                   |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE      | NAME             | CLASS | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
|---------------------|--------------------|-----------|------------------|-------|--------------|-------------------------|
| ES                  | 10/805,626         | 3-19-2004 | Gibson et al.    |       |              |                         |
|                     | 10/805,644         | 3-19-2004 | Winstead et al.  |       |              |                         |
|                     | 10/805,612         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,606         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,638         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,636         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,639         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,657         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,625         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,613         | 3-19-2004 | Lewis            |       |              |                         |
|                     | 10/805,575         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,611         | 3-19-2004 | Michelini et al. |       |              |                         |
|                     | 10/805,637         | 3-19-2004 | Lewis et al.     |       |              |                         |
|                     | 10/805,651         | 3-19-2004 | Lewis et al.     |       |              |                         |
| ES                  | 10/805,645         | 3-19-2004 | Lewis et al.     |       |              |                         |

## FOREIGN PATENT DOCUMENTS

| DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATION<br>YES NO |
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## OTHER DOCUMENTS

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| EXAMINER | ES | DATE CONSIDERED | 3/21/06 |
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